IN THE CLAIMS

Claims 1-4 (Cancelled)

5. (Currently Amended) The image search system as set forth in claim 1, further
comprising An image search system for determining a similarity of an image whose
features are represented by either one of image features amounts, an amount of color
distribution features or an amount of frequency distribution features, to search for a
similar image,
wherein said amount of color distribution features is set to be an image feature
amount obtained by dividing an image as an object representing feature into a
predetermined plurality of blocks and determining a representative color of each said
block to generate data of said representative color corresponding to each said block; and
wherein said amount of frequency distribution features is set to be an image
feature amount generated by transforming an image as an object representing features
into a reduced image of a fixed size and subjecting said reduced image to frequency
conversion, the image search system comprising:
means for transforming, with respect to an image set to be a target whose kind of
image feature amount is to be changed among respective images to be searched and an
inquiry image, a kind of image feature amount of the target image in question to make
kinds of image feature amounts of each said image to be searched and said inquiry image
coincident with each other; and

means for comparing the image feature amount of said inquiry image with the image feature amount of each said image to be searched based on said transformed image feature amount and determining a similarity of each image to search for a similar image;

frequency distribution features conversion feature amount transformation means for converting a transforming an amount of frequency distribution features into a an amount of color distribution features indicative of feature features similar to image features represented by the amount of frequency distribution features in question, and

color distribution similarity calculation means for comparing the <u>amount of color</u> distribution features of said inquiry image with the <u>amount of color</u> distribution features of each said image to be searched and determining a similarity of each image to search for a similar image, wherein

said frequency distribution features conversion amount transformation means renders all the kinds of image features amounts of each image to be searched and the inquiry image into the amount of color distribution features, and

said frequency distribution features conversion amount transformation means including

inverse-frequency transformation means for decoding an applied amount of frequency distribution features to generate a decoded image, and

color distribution features <u>amount</u> extraction means for extracting each pixel value of said decoded image as <u>a-an amount of</u> color constituent features to extract <u>a-an</u> <u>amount of</u> color distribution features indicative of feature similar to image features represented by said applied <u>amount of</u> frequency distribution features.

6. (Currently Amended) The image search system as set forth in claim 15, further comprising

means for referring to data of the image <u>features feature</u> amount of each said image to be searched,

means for receiving input of data of the image features feature amount of said
inquiry image_ .
frequency distribution features conversion means for converting a frequency
distribution features into a color distribution features indicative of feature similar to
image features represented by the frequency distribution features in question, and
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distribution features of said inquiry image with the color distribution features of each said
image to be searched and determining a similarity of each image to search for a similar
image, wherein
said frequency distribution features conversion means renders all the kinds of
image features amounts of each image to be searched and the inquiry image into the color
distribution features, and
said frequency distribution features conversion means including
inverse-frequency transformation means for decoding an applied frequency
distribution features to generate a decoded image, and
color distribution features extraction means for extracting each pixel value of said
decoded image as a color constituent features to extract a color distribution features
indicative of feature similar to image features represented by said applied frequency
distribution features.

7.	(Currently Amended) The image search system as set forth in claim 15, further
com	prisingwherein
	frequency distribution features conversion means for converting a frequency
distr	ibution features into a color distribution features indicative of feature similar to
imag	ge features represented by the frequency distribution features in question, and
	color distribution similarity calculation means for comparing the color
distr	ibution features of said inquiry image with the color distribution features of each said
imag	ge to be searched and determining a similarity of each image to search for a similar
imag	ge, wherein
	said frequency distribution features conversion means renders all the kinds of
imag	ge features amounts of each image to be searched and the inquiry image into the color
distr	ibution features, and
	said frequency distribution features conversion amount transformation means
inclı	ading
	inverse-frequency transformation means for decoding an applied frequency
distr	ibution features to generate a decoded image,
	image division means for dividing said decoded image into a predetermined
plura	ality of blocks ., and
	color distribution features extraction means for calculating each color constituent
feat t	ares of each said block to extract a color distribution features indicative of feature
simi	lar to image features represented by said applied frequency distribution features.

8. (Currently Amended) The image search system as set forth in claim <u>47</u>, further comprising

means for referring to data of the image <u>features feature</u> amount of each said image to be searched,

means for receiving input of data of the image features feature amount of said
inquiry image.
frequency distribution features conversion means for converting a frequency
distribution features into a color distribution features indicative of feature similar to
image features represented by the frequency distribution features in question, and
color distribution similarity calculation means for comparing the color
distribution features of said inquiry image with the color distribution features of each said
image to be searched and determining a similarity of each image to search for a similar
image, wherein
said frequency distribution features conversion means renders all the kinds of
image features amounts of each image to be searched and the inquiry image into the color
distribution features, and
said frequency distribution features conversion means including
inverse frequency transformation means for decoding an applied frequency
distribution features to generate a decoded image,
image division means for dividing said decoded image into a predetermined
plurality of blocks, and

color distribution features extraction means for calculating each color constituent features of each said block to extract a color distribution features indicative of feature similar to image features represented by said applied frequency distribution features. 9. (Currently Amended) The image search system as set forth in claim 7, wherein 1, further comprising -frequency distribution features conversion means for converting a frequency distribution features into a color distribution features indicative of feature similar to image features represented by the frequency distribution features in question, and color distribution similarity calculation means for comparing the color distribution features of said inquiry image with the color distribution features of each said image to be searched and determining a similarity of each image to search for a similar image, wherein said frequency distribution features conversion means renders all the kinds of image features amounts of each image to be searched and the inquiry image into the color distribution features, and said frequency distribution features conversion means including inverse-frequency transformation means for decoding an applied frequency distribution features to generate a decoded image, image division means for dividing said decoded image into a predetermined plurality of blocks, and

color distribution features extraction means for calculating each color constituent features of each said block to extract a color distribution features indicative of feature similar to image features represented by said applied frequency distribution features, and said color distribution features amount extraction means determines a representative color of each said block obtained by the division by said image division means to extract a set of said representative colors as a an amount of color distribution features.

10. (Currently Amended) The image search system as set forth in claim 9, wherein said color distribution features <u>amount</u> extraction means calculates a color mean of a pixel in each said block obtained by the division by said image division means to determine a color of said calculated color mean as said representative color.

Claims 11-12 (Cancelled)

13. (Currently Amended) The image search system as set forth in claim 11 An image search system for determining a similarity of an image whose features are represented by either one of image features amounts, an amount of color distribution features or an amount of frequency distribution features, to search for a similar image,

wherein said amount of color distribution features is set to be an image feature amount obtained by dividing an image as an object representing feature into a predetermined plurality of blocks and determining a representative color of each said block to generate data of said representative color corresponding to each said block; and

wherein said amount of frequency distribution features is set to be an image
feature amount generated by transforming an image as an object representing features
into a reduced image of a fixed size and subjecting said reduced image to frequency
conversion, the image search system comprising:
means for transforming, with respect to an image set to be a target whose kind of
image feature amount is to be changed among respective images to be searched and an
inquiry image, a kind of image feature amount of the target image in question to make
kinds of image feature amounts of each said image to be searched and said inquiry image
coincident with each other;
means for comparing the image feature amount of said inquiry image with the
image feature amount of each said image to be searched based on said transformed image
feature amount and determining a similarity of each image to search for a similar image;
color distribution features amount transformation conversion means for
transforming an amount of color distribution features into an amount of frequency
distribution features indicative of features similar to image features represented by the
color distribution features in question, and
frequency distribution similarity calculation means for comparing the amount of
frequency distribution features of said inquiry image with the amount of frequency
distribution features of each said image to be searched and determining a similarity of
each image to search for a similar image, wherein
said color distribution features conversion means comprising

representative color determination means for determining a representative color of each bock in an applied color distribution features,

image generation means for generating an image which uses the representative color of each said block as a pixel,

image size change means for changing the size of the image generated by said image generation means to a predetermined size, and

frequency distribution features <u>amount</u> extraction means for frequency-converting the image changed by said image size change means to extract a <u>an amount of</u> frequency distribution features indicative of feature similar to the image features represented by said applied <u>amount of</u> color distribution features.

14. (Currently Amended) The image search system as set forth in claim 45, wherein each said image to be searched is set to be a target whose kind of said image features amount is to be converted transformed, and

the kind of image <u>features</u> amount of each said image to be searched is <u>converted transformed</u> to be coincident with the kind of image features amount of said inquiry image.

15. (Currently Amended) The image search system as set forth in claim 15, wherein said inquiry image is set to be a target whose kind of said image features amount is to be converted transformed, and

the kind of image <u>features feature</u> amount of said inquiry image is <u>converted</u> transformed to be coincident with the kind of image features amount of each said image to be searched.

16. (Currently Amended) The image search system as set forth in claim 45, wherein both the images, said inquiry image and said image to be searched, are set to be a target whose kind of said image features feature amount is to be converted transformed, and

the kinds of image features of the respective images, said inquiry image and said each image to be searched, are converted transformed.

17. (Original) The image search system as set forth in claim 16, wherein a circuit for converting a kind of image features amount of said inquiry image and a circuit for converting a kind of image features amount of each said image to be searched are provided independently.

Claims 18-19 (Cancelled)

20. (Currently Amended) The image search system as set forth in claim 15, wherein said frequency distribution features is set to be an image features amount generated by converting an image as an object representing feature into a reduced image of a fixed size and subjecting said reduced image to frequency transformation and quantization.

Claims 21-24 (Cancelled)

25. (Currently Amended) The image search method as set forth in claim 21, further emprising An image search method of determining a similarity of an image whose features are represented by either one of image features amounts, an amount of color distribution features or an amount of frequency distribution features, to search for a similar image, comprising the steps of:

with respect to an image set to be a target whose kind of image feature amount is

with respect to an image set to be a target whose kind of image feature amount is
to be converted among respective images to be searched and an inquiry image,
transforming the kind of image feature amount of the target image in question to make
kinds of image feature amounts of each said image to be searched and said inquiry image
coincident with each other;

amount of each said image to be searched based on said converted image feature amount and determining a similarity of each image to search for a similar image;

a frequency distribution features conversion amount transformation step of converting a transforming an amount of frequency distribution features into a an amount of color distribution features indicative of feature similar to image features represented by the amount of frequency distribution features in question, and

a color distribution similarity calculation step of comparing the <u>amount of color</u> distribution features of said inquiry image with the <u>amount of color</u> distribution features of each said image to be searched and determining a similarity of each image to search for a similar image, wherein

said frequency distribution features conversion amount transformation step renders all the kinds of image features amounts of each image to be searched and the inquiry image into the amount of color distribution features, and

said frequency distribution features conversion amount transformation step including

an inverse-frequency transformation step of decoding an applied <u>amount of</u> frequency distribution features to generate a decoded image, and

a color distribution features <u>amount</u> extraction step of extracting each pixel value of said decoded image as <u>a an amount of</u> color constituent features to extract <u>a an amount of</u> color distribution features indicative of feature similar to image features represented by said applied <u>amount of</u> frequency distribution features.

26. (Currently Amended) The image search method as set forth in claim 2125, further comprising

a step of referring to data of the image <u>features feature</u> amount of each said image to be searched,

a step of receiving input of data of the image features feature amount of said inquiry image,

a frequency distribution features conversion step of converting a frequency distribution features into a color distribution features indicative of feature similar to image features represented by the frequency distribution features in question, and

a color distribution similarity calculation step of comparing the color distribution features of said inquiry image with the color distribution features of each said image to be

searched and determining a similarity of each image to search for a similar image,
wherein
said frequency distribution features conversion step renders all the kinds of image
features amounts of each image to be searched and the inquiry image into the color
distribution features, and
said frequency distribution features conversion step including
an inverse-frequency transformation step of decoding an applied frequency
distribution features to generate a decoded image, and
a color distribution features extraction step of extracting each pixel value of said
decoded image as a color constituent features to extract a color distribution features
indicative of feature similar to image features represented by said applied frequency
distribution features.
27. (Currently Amended) The image search method as set forth in claim 21, further
comprising25, wherein
a frequency distribution features conversion step of converting a frequency
distribution features into a color distribution features indicative of feature similar to
distribution features into a color distribution features indicative of feature similar to
distribution features into a color distribution features indicative of feature similar to image features represented by the frequency distribution features in question, and
distribution features into a color distribution features indicative of feature similar to image features represented by the frequency distribution features in question, and a color distribution similarity calculation step of comparing the color distribution

said frequency distribution features conversion step renders all the kinds of image
features amounts of each image to be searched and the inquiry image into the color
distribution features, and
said frequency distribution features conversion amount transformation step
including
an inverse-frequency transformation step of decoding an applied frequency
distribution features to generate a decoded image,
an image division step of dividing said decoded image into a predetermined
plurality of blocks., and
a color distribution features extraction step of calculating each color constituent
features of each said block to extract a color distribution features indicative of feature
similar to image features represented by said applied frequency distribution features.
28. (Currently Amended) The image search method as set forth in claim 2127, further
comprising
a step of referring to data of the image features feature amount of each said image
to be searched,
a step of receiving input of data of the image features feature amount of said
inquiry image,
a frequency distribution features conversion step of converting a frequency
distribution features into a color distribution features indicative of feature similar to
image features represented by the frequency distribution features in question, and

a color distribution similarity calculation step of comparing the color distribution
features of said inquiry image with the color distribution features of each said image to be
searched and determining a similarity of each image to search for a similar image,
wherein
said frequency distribution features conversion step renders all the kinds of image
features amounts of each image to be searched and the inquiry image into the color
distribution features, and
said frequency distribution features conversion step including
an inverse-frequency transformation step of decoding an applied frequency
distribution features to generate a decoded image,
an image division step of dividing said decoded image into a predetermined
plurality of blocks, and
a color distribution features extraction step of calculating each color constituent
features of each said block to extract a color distribution features indicative of feature
similar to image features represented by said applied frequency distribution features.

29. (Currently Amended) The image search method as set forth in claim 2827, wherein

said color distribution features <u>amount</u> extraction step determines

a representative color of each said block obtained by the division by said image
division step to extract a set of said representative colors as a <u>an amount of</u> color
distribution features.

30. (Currently Amended) The image search method as set forth in claim 29, wherein said color distribution features amount extraction step calculates a color mean of a pixel in each said block obtained by the division by said image division step to determine a color of said calculated color mean as said representative color.

Claims 31-32 (Cancelled)

33. (Currently Amended) The image search method as set forth in claim 31, wherein
An image search method of determining a similarity of an image whose features are
represented by either one of image features amounts, an amount of color distribution
features or an amount of frequency distribution features, to search for a similar image,
comprising the steps of:
with respect to an image set to be a target whose kind of image feature amount is
to be converted among respective images to be searched and an inquiry image,
transforming the kind of image feature amount of the target image in question to make
kinds of image feature amounts of each said image to be searched and said inquiry image
coincident with each other;
comparing the image feature amount of said inquiry image with the image feature
amount of each said image to be searched based on said converted image feature amount
and determining a similarity of each image to search for a similar image;
a color distribution features amount transformation step of transforming an
amount of a color distribution features into an amount of frequency distribution features

indicative of feature similar to image features represented by the amount of color

distribution features in question, and

a frequency distribution similarity calculation step of comparing the amount of
the frequency distribution features of said inquiry image with the amount of the
frequency distribution features of each said image to be searched and determining a
similarity of each image to search for a similar image, wherein

said color distribution features amount transformation step renders all the kinds of
image features amounts of each image to be searched and the inquiry image into the

said color distribution features eonversion amount transformation step comprising a representative color determination step of determining a representative color of each book in an applied color distribution features,

an image generation step of generating an image which uses the representative color of each said block as a pixel,

an image size change step of changing the size of the image generated by said image generation step to a predetermined size, and

a frequency distribution features extraction step of frequency-converting the image changed by said image size change step to extract a an amount of frequency distribution features indicative of feature similar to the image features represented by said applied amount of color distribution features.

Claims 34-36 (Cancelled)

amount of frequency distribution features

37. (Currently Amended) The image search program as set forth in claim 36,
whereinAn image search program for determining a similarity of an image whose
features are represented by either one of image features amounts, an amount of color
distribution features or an amount of frequency distribution features, to search for a
similar image by controlling a computer, comprising the functions of:
with respect to an image set to be a target whose kind of image feature amount is
to be converted among respective images to be searched and an inquiry image,
transforming the kind of image feature amounts of the target image in question to make
kinds of image feature amounts of each said image to be searched and said inquiry image
coincident with each other; and
comparing the image feature amount of said inquiry image with the image feature
amount of each said image to be searched based on said converted image feature amount
and determining a similarity of each image to search for a similar image;
a frequency distribution features amount transformation function of transforming
an amount of frequency distribution features into an amount of color distribution features
indicative of feature similar to image features represented by the amount of frequency
distribution features in question, and
a color distribution similarity calculation function of comparing the amount of
color distribution features of said inquiry image with the amount of color distribution
features of each said image to be searched and determining a similarity of each image to
search for a similar image, wherein

said frequency distribution features amount transformation function renders all the kinds of image features amounts of each image to be searched and the inquiry image into the amount of color distribution features, and

said frequency distribution features conversion amount transformation function including

an inverse-frequency transformation function of decoding an applied amount of frequency distribution features to generate a decoded image, and

a color distribution features <u>amount</u> extraction function of extracting each pixel value of said decoded image as <u>an amount of</u> color constituent features to extract <u>an amount of</u> color distribution features indicative of feature similar to image features represented by said applied <u>amount of</u> frequency distribution features.

Claims 38-41 (Cancelled)

42. (Currently Amended) The image search program as set forth in claim 3437, further comprising

a function of referring to data of the image features feature amount of each said image to be searched,

a function of receiving input of data of the image <u>features</u> amount of said inquiry image.

a color distribution features conversion function of converting a color distribution features into a frequency distribution features indicative of feature similar to image features represented by the color distribution features in question, and

a frequency distribution similarity calculation function of comparing the
frequency distribution features of said inquiry image with the frequency distribution
features of each said image to be searched and determining a similarity of each image to
search-for a similar image, wherein
said color distribution features conversion function renders all the kinds of image
features amounts of each image to be searched and the inquiry image into the frequency
distribution features.
43. (Currently Amended) The image search program as set forth in claim 41,
whereinAn image search program for determining a similarity of an image whose
features are represented by either one of image feature amounts, an amount of color
distribution features or an amount of frequency distribution features, to search for a
similar image by controlling a computer, comprising the functions of:
with respect to an image set to be a target whose kind of image feature amount is
to be converted among respective images to be searched and an inquiry image,
transforming the kind of image feature amount of the target image in question to make
kinds of image feature amounts of each said image to be searched and said inquiry image
coincident with each other;
comparing the image feature amount of said inquiry image with the image feature
amount of each said image to be searched based on said converted image feature amount
and determining a similarity of each image to search for a similar image;
a color distribution features amount transformation function of transforming an
amount of a color distribution features into an amount of frequency distribution features

indicative of feature similar to image features represented by the amount of color

distribution features in question, and

a frequency distribution similarity calculation function of comparing the amount
of frequency distribution features of said inquiry image with the amount of the frequency
distribution features of each said image to be searched and determining a similarity of
each image to search for a similar image, wherein
said color distribution features amount transformation function renders all the
kinds of image features amounts of each image to be searched and the inquiry image into
the amount of frequency distribution features,
said color distribution features eonversion amount transformation function

comprising

a representative color determination function of determining a representative color of each bock in an applied color distribution features,

an image generation function of generating an image which uses the representative color of each said block as a pixel,

an image size change function of changing the size of the image generated by said image generation function to a predetermined size, and

a frequency distribution features extraction function of frequency-converting the image changed by said image size change function to extract an amount of a-frequency distribution features indicative of feature similar to the image features represented by said applied amount of color distribution features.